WL 1005 - AIR QUALITY MONITOR
Instructions manual

FEATURES:

LCD display

Function keys

Battery compartment
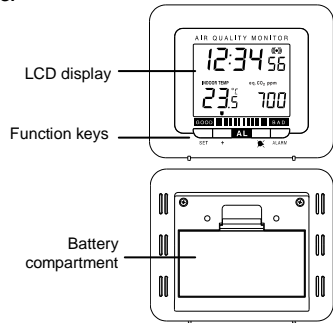
- Quartz clock
- 12/24h time display
- Indoor temperature display in °C/°F
- Air quality sensor for monitoring of indoor air quality
- Display of CO_2 equivalent values and quality indicator
- Air quality alarm per LED and beep tone
- Alarm
- Low battery indicator

SETTING UP:
1. Open the battery cover at the back of the air quality monitor.
2. Checking the correct polarization, insert 1 x D, Mono 1.5V Alkaline battery into the battery compartment and replace the cover.
3. When the battery is inserted, all the segments of the LCD will light up briefly and a "beep" will sound.
4. Press the SET key to manually enter a time initially.

Note:
- The equivalent CO_2 ppm will only be displayed after 30 minutes.
- The air quality sensor will take up to 5 days after inserting battery to condition itself for the room it is placed. If the unit is placed into another room, there might be a reconditioning time of several days as well.

INSTALLING AND REPLACING THE BATTERY IN THE AIR QUALITY MONITOR
The air quality monitor uses 1 x D, Mono 1.5V battery.
To install and replace the battery, please follow the steps below:

1. Remove the cover at the back of the air quality monitor.
2. Insert battery observing the correct polarity (see marking).
3. Replace compartment cover.

BATTERY CHANGE:
It is recommended to replace the battery in the unit regularly to ensure optimum accuracy of the unit (Battery life See **Specifications** below).
Please participate in the preservation of the environment. Return used batteries to an authorized depot.

KEY FUNCTIONS:
The Air Quality Monitor has 4 easy-to-use keys:

SET key

+ key   ALERT key

ALARM key
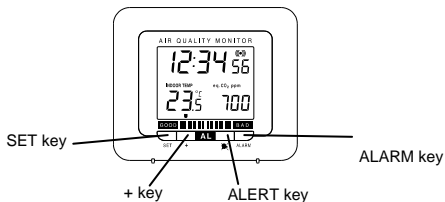
SET key:
- Press and hold to enter the manual setting modes:12/24 hour time display, manual time setting, °C / °F temperature display,
- Stop alarm ringing
- Exit the manual setting mode

+ key:
- Press to change values of all manual settings
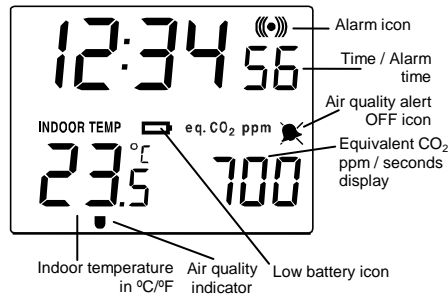- Activate / deactivate the alarm
- Stop alarm ringing

ALERT key:
- Press and hold to enter air quality alert setting mode
- Press to change air quality alert setting

ALARM key:
- Press and hold to enter the alarm setting mode
- Stop alarm ringing
- Exit the alarm setting mode

LCD SCREEN

Alarm icon

Time / Alarm time

Air quality alert OFF icon

Equivalent CO_2 ppm / seconds display

Indoor temperature in °C/°F   Air quality indicator   Low battery icon

MANUAL SETTINGS:
The following manual settings can be done in the setting mode:
1. 12/24 hour time setting
2. Time setting
3. °C / °F temperature display setting

Press and hold the SET button for about 3 second to enter the setting mode:

12/24 HOUR TIME DISPLAY SETTING
- "12hr" or "24hr" flashes in the LCD. (default 24hr)
- Press the **+** key to select the "12hr" or "24hr" display mode.
- Confirm with the **SET** key and enter the **Manual time setting**.

MANUAL TIME SETTING
To set the clock:
- The hour digits start flashing in the time display section.
- Use the **+** key to adjust the hours and then press **SET** key to go to the minute setting.
- The minute will be flashing. Press the **+** key to just the minutes.
- Confirm with the **SET** key and enter the **°C/°F temperature setting**.

°C/°F TEMPERATURE UNIT SETTING
The default temperature reading is set to °C (degree Celsius). To select °F (degree Fahrenheit):
1. The "°C" will be flashing, use the **+** key to toggle between "°C" and "°F".
2. Confirm with the **SET** key to confirm all **settings**.

AIR QUALITY ALERT SETTING
Press and hold the ALERT button for about 3 second to enter the air quality alert setting mode, the air quality monitor has 3 alert settings (default: ALL):
- **ALL:** LED alert flashing with alert sound
- **OFF:** alert off (no LED alert flashing, no alert sound)
- **LED:** LED alert flashing only

1. The setting starts flashing. Use the **ALERT** key to set the required setting (ALL, LED, OFF).
2. Confirm with the **SET** key and the **exit the manual settings**.

Note:
If the air quality alert has been set to "ALL" or "LED":
- **Equivalent CO_2 ppm > 1500ppm:**
  LED alert blinks at a slower speed (1.5s) and no alert sound.
- **Equivalent CO_2 ppm > 2000ppm:**
  LED alert blinks at faster speed (0.5s) and has alert sound. (Alert will sound only if the air quality setting has been set to ALL).

Note about the air quality alert:
- The air quality alert will sound for a maximum duration of 30 minutes. To stop the alert, press any key.

AIR QUALITY INDICATOR
The air quality indicator is located on the bottom of the LCD. It changes from GREEN to RED by measuring the Equivalent CO_2 ppm.

Air quality indicator

Bar graph

Equivalent CO_2 ppm (parts per million) value*
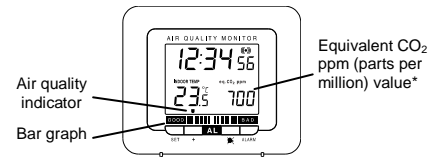
* The air quality value shown, after sensor conditioning, may differ +/- 250 ppm.

Note:
A 9-level bar graph is used to indicate "GREEN" to "RED" air quality level in the surrounding environment:

Levels	Equivalent CO_2 ppm
GREEN (level 1)	450 – 600ppm
Level 2	650 – 800ppm
Level 3	850 – 1000ppm
Level 4	1050 – 1200ppm
Level 5	1250 – 1500ppm
Level 6	1550 – 1800ppm
Level 7	1850 – 2100ppm
Level 8	2150 – 2400ppm
RED (level 9)	≥ 2450ppm

ALARM SETTING
To set alarm:
1. Press and hold **ALARM** key for about 3 seconds until the alarm time display flashes.
2. The hour digit will be flashing. Press the **+** key to adjust the hour.
3. Then, press **ALARM** key and the minute digit will start flashing. Press **+** key to set the minute.
4. Press the **ALARM** / **SET** key to confirm the setting and exit the alarm setting.

Note:
- To activate/ deactivate the alarm function, press the **ALARM** button once. The display of the alarm icon represents that the alarm is "ON".
- The duration of alarm sounding is 180 seconds.
- Press any button to stop the alarm.

SPECIFICATIONS:
Recommended temperature range:
+5°C to +40°C / +41°F to 139.8°F
Temperature measuring range:
Indoor: -9.9°C to +59.9°C with 0.1°C resolution / 14.1°F to +139.8°F with 0.2°F resolution (OFL displayed if outside this range. In degree F display, OFL will displayed when over 99.9°F)
Equivalent CO_2 ppm measuring range:
450ppm to 6950ppm with 50ppm resolution (display OFL > 6950ppm)

Measuring intervals:
Indoor temperature checking interval: every 16 seconds
Indoor humidity checking interval: every 16 seconds
Air quality level checking interval: every 3 minutes
Power consumption: 1 x D, Mono, 1.5V
Dimensions (L x W x H): 104 x 47 x 84 mm

Precautions
- This main unit is intended to be used only indoors.
- Do not subject the unit to excessive force or shock.
- Do not expose the unit to extreme temperatures, direct sunlight, dust or humidity.
- Do not immerse in water.
- Avoid contact with any corrosive materials.
- Do not dispose this unit in a fire as it may explode.
- Do not open the inner back case or tamper with any components of this unit.

Batteries safety warnings
- Please read all instructions carefully before use.
- Use only alkaline batteries, not rechargeable batteries.
- Install batteries correctly by matching the polarities (+/-).
- Always replace a complete set of batteries.
- Never mix used and new batteries.
- Remove exhausted batteries immediately.
- Remove batteries when not in use.
- Do not recharge and do not dispose of batteries in fire as the batteries may explode.
- Ensure batteries are stored away from metal objects as contact may cause a short circuit.
- Avoid exposing batteries to extreme temperature or humidity or direct sunlight.
- Keep all batteries out of reach from children. They are a choking hazard.

Consideration of duty according to the battery law

Old batteries do not belong to domestic waste because they could cause damages of health and environment. You can return used batteries free of charge to your dealer and collection points. As end-user you are committed by law to bring back needed batteries to distributors and other collecting points!

Consideration of duty according to the law of electrical devices

This symbol means that you must dispose of electrical devices from the General household waste when it reaches the end of its useful life. Take your unit to your local waste collection point or recycling centre. This applies to all countries of the European Union, and to other European countries with a separate waste collection system.

R&TTE Directive 1999/5/EC
Summary of the Declaration of Conformity: We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC.